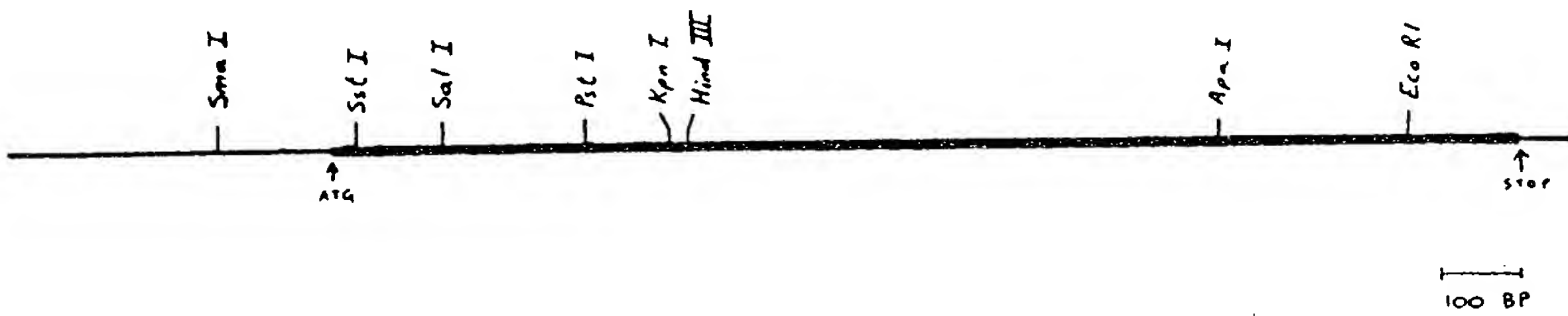


JC973 U.S. PTO
09/02/93 13
08/14/01



2/10
FIGURE 2

Met	Asp	Ile	Leu	Cys	Glu	Glu	Asn	Thr	Ser																				
A	T	G	G	A	T	A	T	T	C	T	T	G	T	G	A	A	G	A	A	A	A	T	A	C	T	T	C	T	
10										20										30									

Leu	Ser	Ser	Thr	Thr	Asn	Ser	Leu	Met	Gln																				
T	T	G	A	G	C	T	C	A	A	C	T	A	C	G	A	A	C	T	C	C	C	T	A	A	T	G	C	A	A
40										50										60									

Leu	Asn	Asp	Asp	Thr	Arg	Leu	Tyr	Ser	Asn																				
T	T	A	A	A	T	G	A	T	G	A	C	A	C	C	A	G	G	C	T	C	T	A	C	A	G	T	A	A	T
70										80										90									

Asp	Phe	Asn	Ser	Gly	Glu	Ala	Asn	Thr	Ser																				
G	A	C	T	T	T	A	A	C	T	C	C	G	G	A	G	A	A	G	C	T	A	A	C	A	C	T	T	C	T
100										110										120									

Asp	Ala	Phe	Asn	Trp	Thr	Val	Asp	Ser	Glu																				
G	A	T	G	C	A	T	T	T	A	A	C	T	G	G	A	C	A	G	T	C	G	A	C	T	C	T	G	A	A
130										140										150									

Asn	Arg	Thr	Asn	Leu	Ser	Cys	Glu	Gly	Cys																				
A	A	T	C	G	A	A	C	C	A	A	C	C	T	T	T	C	C	T	G	T	G	A	A	G	G	G	T	G	C
160										170										180									

3/10

FIGURE 2, CON'D

Leu	Ser	Pro	Ser	Cys	Leu	Ser	Leu	Leu	His																							
C	T	C	T	C	A	C	C	G	T	C	G	T	G	T	C	T	C	T	C	C	T	T	A	C	T	T	C	A	T			
										190											200											210
Leu	Gln	Glu	Lys	Asn	Trp	Ser	Ala	Leu	Leu																							
C	T	C	C	A	G	G	A	A	A	A	A	A	A	C	T	G	G	T	C	T	G	C	T	T	T	A	C	T	G			
										220											230											240
Thr	Ala	Val	Val	Ile	Ile	Leu	Thr	Ile	Ala																							
A	C	A	G	C	C	G	T	A	G	T	G	A	T	T	A	T	T	C	T	A	A	C	T	A	T	T	G	C	T			
										250											260											270
Gly	Asn	Ile	Leu	Val	Ile	Met	Ala	Val	Ser																							
G	G	A	A	A	C	A	T	A	C	T	C	G	T	C	A	T	C	A	T	G	G	C	A	G	T	G	T	C	C			
										280											290											300
Leu	Glu	Lys	Lys	Leu	Gln	Asn	Ala	Thr	Asn																							
C	T	A	G	A	G	A	A	A	A	A	G	C	T	G	C	A	G	A	A	T	G	C	C	A	C	C	A	A	C			
										310											320											330
Tyr	Phe	Leu	Met	Ser	Leu	Ala	Ile	Ala	Asp																							
T	A	T	T	T	C	C	T	G	A	T	G	T	C	A	C	T	T	G	C	C	A	T	A	G	C	T	G	A	T			
										340											350											360
Met	Leu	Leu	Gly	Phe	Leu	Val	Met	Pro	Val																							
A	T	G	C	T	G	C	T	G	G	G	T	T	T	C	C	T	T	G	T	C	A	T	G	C	C	C	G	T	G			
										370											380											390
Ser	Met	Leu	Thr	Ile	Leu	Tyr	Gly	Tyr	Arg																							
T	C	C	A	T	G	T	T	A	A	C	C	A	T	C	C	T	G	T	A	T	G	G	G	T	A	C	C	G	G			
										400											410											420

4/10

FIGURE 2, CONT'D

Trp	Pro	Leu	Pro	Ser	Lys	Leu	Cys	Ala	Val																							
T	G	G	C	C	T	C	T	G	C	C	G	A	G	C	A	A	G	C	T	T	T	G	T	G	C	A	G	T	C			
										430											440											450

Trp	Ile	Tyr	Leu	Asp	Val	Leu	Phe	Ser	Thr																							
T	G	G	A	T	T	T	A	C	C	T	G	G	A	C	G	T	G	C	T	C	T	T	C	T	C	C	A	C	G			
										460											470											480

Ala	Ser	Ile	Met	His	Leu	Cys	Ala	Ile	Ser																							
G	C	C	T	C	C	A	T	C	A	T	G	C	A	C	C	T	C	T	G	C	G	C	C	A	T	C	T	C	G			
										490											500											510

Leu	Asp	Arg	Tyr	Val	Ala	Ile	Gln	Asn	Pro																							
C	T	G	G	A	C	C	G	C	T	A	C	G	T	C	G	C	C	A	T	C	C	A	G	A	A	T	C	C	C			
										520											530											540

Ile	His	His	Ser	Arg	Phe	Asn	Ser	Arg	Thr																							
A	T	C	C	A	C	C	A	C	A	G	C	C	G	C	T	T	C	A	A	C	T	C	C	A	G	A	A	C	T			
										550											560											570

Lys	Ala	Phe	Leu	Lys	Ile	Ile	Ala	Val	Trp																							
A	A	G	G	C	A	T	T	T	C	T	G	A	A	A	A	T	C	A	T	T	G	C	T	G	T	T	T	G	G			
										580											590											600

Thr	Ile	Ser	Val	Gly	Ile	Ser	Met	Pro	Ile																							
A	C	C	A	T	A	T	C	A	G	T	A	G	G	T	A	T	A	T	C	C	A	T	G	C	C	A	A	T	A			
										610											620											630

Pro	Val	Phe	Gly	Leu	Gln	Asp	Asp	Ser	Lys																							
C	C	A	G	T	C	T	T	T	G	G	G	C	T	A	C	A	G	G	A	C	G	A	T	T	C	G	A	A	G			
										640											650											660

FIGURE 2, CONT'D

Val Phe Lys Glu Gly Ser Cys Leu Leu Ala
 G T C T T T A A G G A G G G G A G T T G C T T A C T T G C C
 670 680 690

Asp Asp Asn Phe Val Leu Ile Gly Ser Phe
 G A T G A T A A C T T T G T C C T G A T C G G C T C T T T T
 700 710 720

Val Ser Phe Phe Ile Pro Leu Thr Ile Met
~~G T G T C A T T T T T C A T T C C C T T A A C C A T C A T G~~
 730 740 750

Val Ile Thr Tyr Phe Leu Thr Ile Lys Ser
 G T G A T C A C C T A C T T T C T A A C T A T C A A G T C A
 760 770 780

Leu Gln Lys Glu Ala Thr Leu Cys Val Ser
 C T C C A G A A A G A A G C T A C T T T G T G T G T A A G T
 790 800 810

Asp Leu Gly Thr Arg Ala Lys Leu Ala Ser
 G A T C T T G G C A C A C G G G C C A A A T T A G C T T C T
 820 830 840

Phe Ser Phe Leu Pro Gln Ser Ser Leu Ser
 T T C A G C T T C C T C C C T C A G A G T T C T T T G T C T
 850 860 870

Ser Glu Lys Leu Phe Gln Arg Ser Ile His
 T C A G A A A A G C T C T T C C A G C G G T C G A T C C A T
 880 890 900

FIGURE 2, CONT'D

Arg Glu Pro Gly Ser Tyr Thr Gly Arg Arg
A G G G A G C C A G G G T C C T A C A C A G G C A G G A G G
910 920 930

Thr Met Gln Ser Ile Ser Asn Glu Gln Lys
A C T A T G C A G T C C A T C A G C A A T G A G C A A A A G
940 950 960

Ala	Cys	Lys	Val	Leu	Gly	Ile	Val	Phe	Phe
G C A T G C A A G G T G C T G G G C A T C G T C T T C T T C									
		970				980			990

Leu Phe Val Val Met Trp Cys Pro Phe Phe
C T G T T T G T G G T G A T G T G G T G C C C T T T C T T C
1000 1010 1020

Ile Thr Asn Ile Met Ala Val Ile Cys Lys
A T C A C A A A C A T C A T G G C C G T C A T C T G C A A A
1030 1040 1050

Glu Ser Cys Asn Glu Asp Val Ile Gly Ala
G A G T C C T G C A A T G A G G A T G T C A T T G G G G C C

1060 1070 1080

Leu Leu Asn Val Phe Val Trp Ile Gly Tyr
C T G C T C A A T G T G T T T G T T T G G A T C G G T T A T
 1090 1100 1110

Leu Ser Ser Ala Val Asn Pro Leu Val Tyr
C T C T C T T C A G C A G T C A A C C C A C T A G T C T A C
1120 1130 1140

FIGURE 2, CONT'D

Thr	Leu	Phe	Asn	Lys	Thr	Tyr	Arg	Ser	Ala
A	C	A	C	T	G	T	T	C	A
A	C	A	A	C	A	A	G	A	C
C	T	A	T	A	G	G	T	C	A
G	C	C							
			1150			1160			1170

Phe	Ser	Arg	Tyr	Ile	Gln	Cys	Gln	Tyr	Lys
T	T	T	T	C	A	C	G	G	T
A	T	A	T	T	C	A	G	T	G
T	C	A	G	T	A	C	A	A	G
			1180			1190			1200

Glu	Asn	Lys	Lys	Pro	Leu	Gln	Leu	Ile	Leu
G	A	A	A	C	A	A	A	A	A
A	A	A	A	A	A	C	C	A	T
T	G	C	A	G	T	T	A	A	T
T	T	T	T	A					
			1210			1220			1230

Val	Asn	Thr	Ile	Pro	Ala	Leu	Ala	Tyr	Lys
G	T	G	A	A	C	A	C	A	A
T	A	C	C	G	G	C	T	T	T
G	G	C	C	T	A	C	A	A	G
			1240			1250			1260

Ser	Ser	Gln	Leu	Gln	Met	Gly	Gln	Lys	Lys
T	C	T	A	G	C	C	A	A	C
T	T	C	A	A	A	T	G	G	G
A	C	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	G
			1270			1280			1290

Asn	Ser	Lys	Gln	Asp	Ala	Lys	Thr	Thr	Asp
A	A	T	T	C	A	A	A	G	C
A	A	G	C	A	A	G	A	T	G
C	C	A	A	G	A	C	A	A	C
A	G	A	T						
			1300			1310			1320

Asn	Asp	Cys	Ser	Met	Val	Ala	Leu	Gly	Lys
A	A	T	G	A	C	T	G	C	T
C	A	A	T	G	G	T	T	G	C
T	C	T	A	G	G	A	A	A	G
			1330			1340			1350

Gln	His	Ser	Glu	Glu	Ala	Ser	Lys	Asp	Asn
C	A	G	C	A	T	T	C	T	G
A	A	G	A	G	G	C	T	T	C
T	A	A	A	G	A	C	A	A	T
			1360			1370			1380

8/10

FIGURE 2, CONT'D

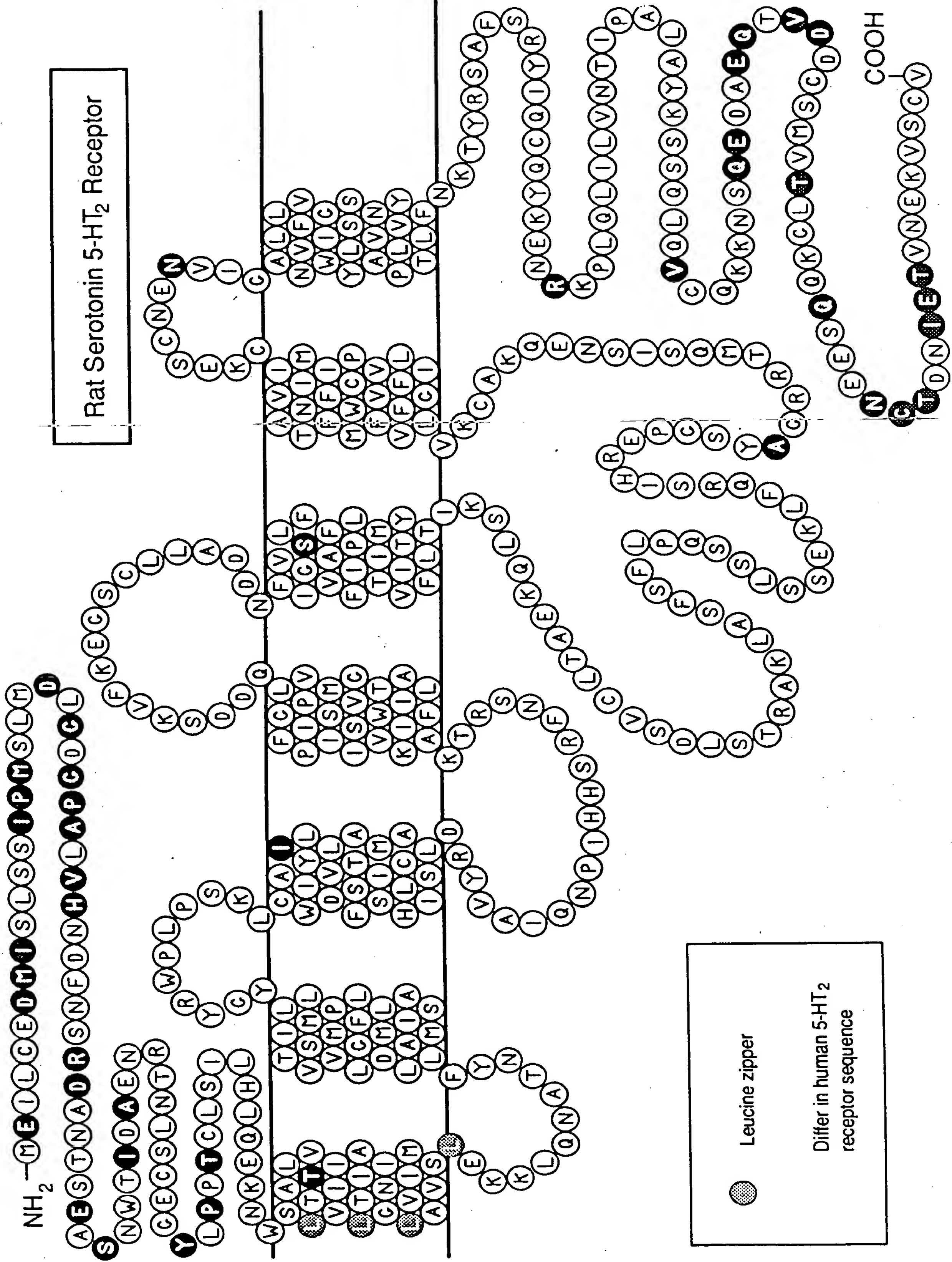
Ser	Asp	Gly	Val	Asn	Glu	Lys	Val	Ser	Cys																							
A	G	C	G	A	C	G	G	A	G	T	G	A	A	T	G	A	A	A	G	G	T	G	A	G	C	T	G	T				
										1390											1400											1410

Val	***	***	Ala	Ser	Cys	Arg	Gly	Asn	Cys																							
G	T	G	T	G	A	T	A	G	G	C	T	A	G	T	T	G	C	C	G	T	G	G	C	A	A	C	T	G	T			
										1420											1430											1440

G	G	A	A	G	G	C	A	C	A	C	T	G	A	G	C	A	A	G	T	T	T	T	C	A	C	C	T	A	T			
										1450											1460											1470

C	T	G	G	T	T	T	T	T	T	T	G	
												1480

FIGURE 3



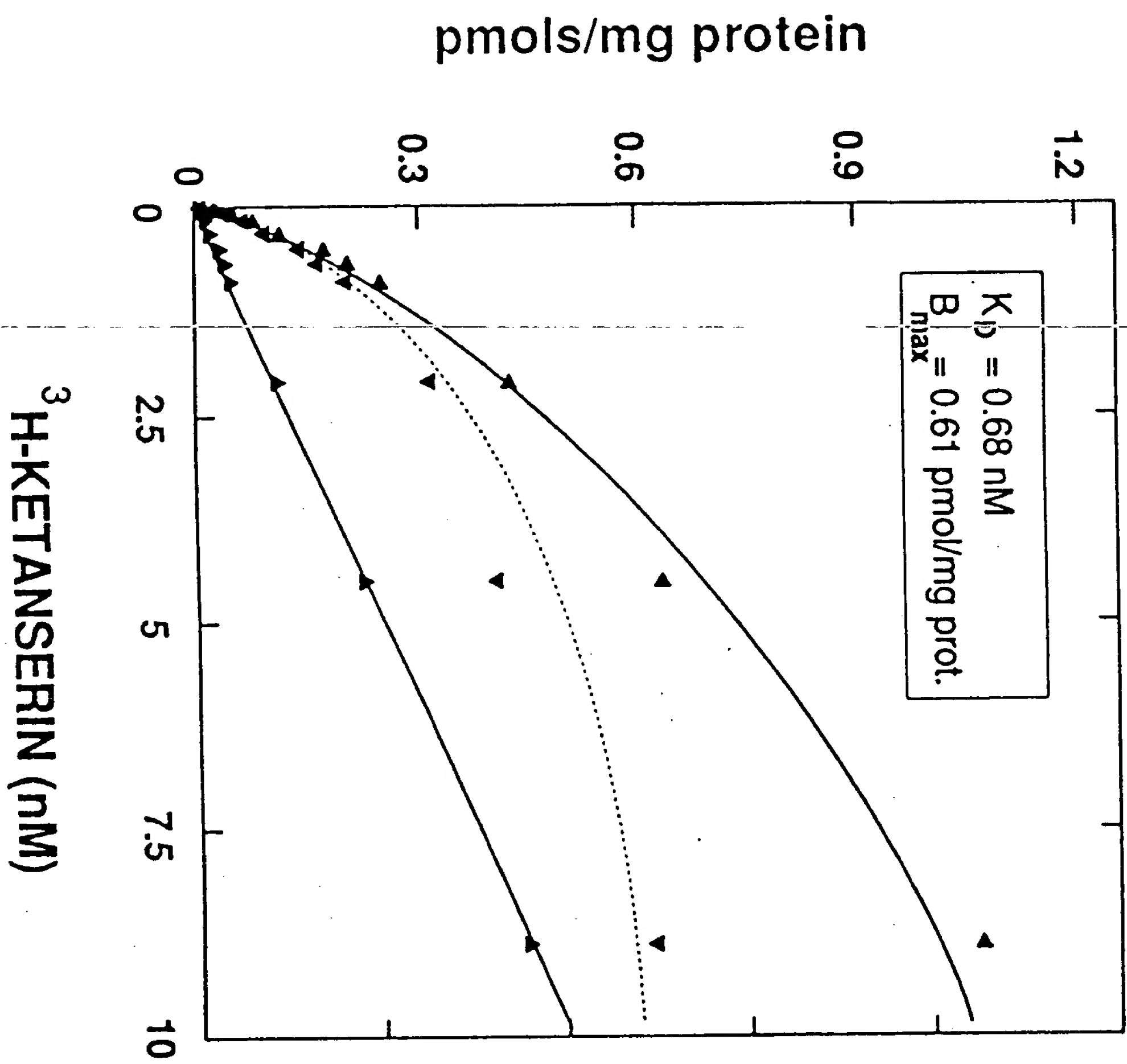


FIGURE 4